 FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 2057.0060002/JAG/BJD	APPLICATION NO. 10/743,295
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CMW	AA1	4,002,531	01/11/1977	Royer			01/22/1976
	AB1	4,179,337	12/18/1979	Davis et al.			07/28/1977
	AC1	4,261,973	04/14/1981	Lee et al.			08/08/1977
	AD1	4,301,144	11/17/1981	Iwashita et al.			07/10/1980
	AE1	4,462,946	07/31/1984	Hanisch et al.			05/18/1983
	AF1	4,609,546	09/02/1986	Hiratani			06/23/1983
	AG1	4,732,863	003/22/1988	Tomasi et al.			12/31/1984
	AH1	4,816,440	03/28/1989	Thomson			09/26/1985
	AI1	4,894,330	01/16/1990	Hershenson et al.			12/23/1986
	AJ1	4,902,502	02/20/1990	Nitecki et al.			01/23/1989
	AK1	4,904,584	02/27/1990	Shaw			12/23/1987

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
CMW	AL1	EP 0 098 110 B1	10/18/1989	Europe			Yes No
	AM1	EP 0 733 067 B1	05/12/1999	Europe			Yes No
	AN1	EP 1 039 922 B1	06/12/2002	Europe			Yes No
	AO1	EP 0 822 199 A2 and A3	02/04/1998	Europe			Yes No
	AP1	WO 89/01033 A1	02/09/1989	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CMW	AR	<u>1</u>	Abuchowski, A., et al., "Immunosuppressive properties and circulating life of <i>Achromobacter</i> glutaminase-asparaginase covalently attached to polyethylene glycol in man," <i>Cancer Treat Rep</i> 65:1077-1081, Kluwer Academic (1981)
CMW	AS	<u>1</u>	Abuchowski, A., et al., "Cancer therapy with chemically modified enzymes. I. Antitumor properties of polyethylene glycol-asparaginase conjugates," <i>Cancer Biochem Biophys</i> 7:175-186, Gordon & Breach (1984)
CMW	AT	<u>1</u>	Abuchowski, A., et al., "Effect of covalent attachment of polyethylene glycol on immunogenicity and circulating life of bovine liver catalase," <i>J Biol Chem</i> 252:3582-3586, The American Society for Biochemistry and Molecular Biology (1977)
EXAMINER			DATE CONSIDERED
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CMW	AA2	5,006,333	04/09/1991	Saifer et al.	 		07/13/1989
	AB2	5,080,891	01/14/1992	Saifer et al.	 		08/01/1990
	AC2	5,091,176	02/25/1992	Braatz et al.	 		04/24/1990
	AD2	5,122,614	06/16/1992	Zalipsky	 		04/19/1990
	AE2	5,206,344	04/27/1993	Katre et al.	 		01/11/1988
	AF2	5,219,564	06/15/1993	Zalipsky et al.	 		07/05/1991
	AG2	5,252,714	10/12/1993	Harris et al.	 		11/28/1990
	AH2	5,281,698	01/25/1994	Nitecki	 		07/23/1991
	AI2	5,283,317	02/01/1994	Saifer et al.	 		10/11/1991
	AJ2	5,324,844	06/28/1994	Zalipsky	 		01/08/1992
	AK2	5,349,052	09/20/1994	Delgado et al.	 		05/12/1993

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
CMW	AL2	WO 89/05824 A1	06/29/1989	WIPO	 		Yes No
	AM2	WO 92/16555 A1	10/01/1992	WIPO	 		Yes No
	AN2	WO 96/40731 A1	12/19/1996	WIPO	 		Yes No
	AO2	WO 96/11953 A1	04/25/1996	WIPO	 		Yes No
	AP2	WO 99/45026 A1	12/19/1996	WIPO	 		Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CMW	AR	<u>2</u>	Amoui, M., et al., "Differential phosphorylation of IRS-1 by insulin and insulin-like growth factor I receptors in Chinese hamster ovary cells," <i>J Endocrinol</i> 171:153-162, Society for Endocrinology (October 2001)
CMW	AS	<u>2</u>	Arduini, R. M., et al., "Expression, purification, and characterization of rat interferon-beta, and preparation of an N-terminally PEGylated form with improved pharmacokinetic parameters," <i>Protein Expr Purif</i> 34: 229-242, Academic Press, Inc. (April 2004)
CMW	AT	<u>2</u>	Bailon, P., et al., "Rational design of a potent, long-lasting form of interferon: A 40 kDa branched polyethylene glycol-conjugated interferon alpha-2a for the treatment of hepatitis C," <i>Bioconjug Chem</i> 12:195-202, American Chemical Society (March-April 2001)
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CMW	AA3	5,362,852	11/08/1994	Geoghegan et al.	_____	_____	09/27/1991
	AB3	5,382,657	01/17/1995	Karasiewicz et al.	_____	_____	08/26/1992
	AC3	5,395,619	03/07/1995	Zalipsky et al.	_____	_____	03/03/1993
	AD3	5,449,090	08/29/1995	Harris	_____	_____	11/12/1993
	AE3	5,468,478	11/21/1995	Saifer et al.	_____	_____	10/18/1993
	AF3	5,476,653	12/19/1995	Pitt et al.	_____	_____	03/22/1995
	AG3	5,539,063	07/23/1996	Hakimi et al.	_____	_____	06/01/1995
	AH3	5,605,976	02/25/1997	Martinez et al.	_____	_____	05/15/1995
	AI3	5,612,460	03/18/1997	Zalipsky	_____	_____	02/17/1994
	AJ3	5,643,575	07/01/1997	Martinez et al.	_____	_____	10/27/1993
	AK3	5,672,662	09/30/1997	Harris et al.	_____	_____	10/02/1995

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
CMW	AL3	WO 99/55377 A2	11/04/1999	WIPO	_____	_____	Yes No
	AM3	WO 99/58142 A1	11/18/1999	WIPO	_____	_____	Yes No
	AN3	WO 00/07629 A2 and A3	02/17/2000	WIPO	_____	_____	Yes No
	AO3	WO 00/23114 A2 and A3	04/27/2000	WIPO	_____	_____	Yes No
	AP3	WO 01/02017 A2 and A3	01/11/2001	WIPO	_____	_____	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CMW	AR	<u>3</u>	Bamborough, P., et al., "The interleukin-2 and interleukin-4 receptors studied by molecular modeling," <i>Structure</i> 2:839-851, Elsevier Science Ltd. (1994)
CMW	AS	<u>3</u>	Basser, R.L., et al., "Development of pancytopenia with neutralizing antibodies to thrombopoietin after multicycle chemotherapy supported by megakaryocyte growth and development factor," <i>Blood</i> 99:2599-2602, The American Society of Hematology (April 2002)
CMW	AT	<u>3</u>	Bertolotto, A., et. al., "Differential effects of three interferon betas on neutralising antibodies in patients with multiple sclerosis: a follow up study in an independent laboratory," <i>J. Neurol. Neurosurg. Psychiatry</i> . 73:148-153, BMJ Publishing Group (April 2002)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CMW	AA4	5,681,567	10/28/1997	Martinez et al.	—	—	08/13/1996
	AB4	5,711,944	01/27/1998	Gilbert et al.	—	—	11/10/1994
	AC4	5,730,990	03/24/1998	Greenwald et al.	—	—	06/05/1995
	AD4	5,738,846	04/14/1998	Greenwald et al.	—	—	11/21/1995
	AE4	5,739,208	04/14/1998	Harris	—	—	06/07/1995
	AF4	5,747,646	05/05/1998	Hakimi et al.	—	—	06/01/1995
	AG4	5,756,593	05/26/1998	Martinez et al.	—	—	06/27/1997
	AH4	5,770,577	06/23/1998	Kinslter et al.	—	—	11/14/1994
	AI4	5,792,834	08/11/1998	Hakimi et al.	—	—	06/01/1995
	AJ4	5,808,096	09/15/1998	Zalipsky	—	—	01/21/1997
	AK4	5,824,784	10/20/1998	Kinstler et al.	—	—	10/12/1994

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
CMW	AL4	WO 01/59078 A2 and A3	08/16/2001	WIPO	—	—	Yes No
	AM4	WO 02/032957 A1	04/25/2002	WIPO	—	—	X Yes No
	AN4	WO 02/049673 A2	06/27/2002	WIPO	—	—	Yes No
	AO4	WO 03/031581 A2	04/17/2003	WIPO	—	—	Yes No
	AP4	WO 04/046222 A1	06/02/2004	WIPO	—	—	Yes X No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CMW	AR	<u>4</u>	Bowen, S., et al., "Relationship between molecular mass and duration of activity of polyethylene glycol conjugated granulocyte colony-stimulating factor mutein," <i>Exp Hematol</i> 27:425-432, Elsevier Science Inc. (1999)
CMW	AS	<u>4</u>	Brenner, B.M., et al., "Glomerular permselectivity: Barrier function based on discrimination of molecular size and charge," <i>Am J Physiol</i> 234:F455-F460, American Physiological Society (1978)
CMW	AT	<u>4</u>	Bruchelt, G., et al., "Determination of 2'-5'-oligoadenylate synthetase in serum and peripheral blood mononuclear cells before and after subcutaneous application of recombinant interferon beta and gamma," <i>Eur J Clin Chem Clin Biochem</i> 30:521-528, Walter de Gruyter & Co. (1992)

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CMW	AA5	5,834,594	11/10/1998	Hakimi et al.	 	 	06/01/1995
	AB5	5,849,860	12/15/1998	Hakimi et al.	 	 	06/01/1995
	AC5	5,880,255	03/09/1999	Delgado et al.	 	 	04/14/1995
	AD5	5,889,153	03/30/1999	Suzuki et al.	 	 	03/14/1997
	AE5	5,900,461	05/04/1999	Harris	 	 	02/23/1998
	AF5	5,902,588	05/11/1999	Greenwald et al.	 	 	11/19/1997
	AG5	5,919,455	07/06/1999	Greenwald et al.	 	 	03/20/1997
	AH5	5,932,462	08/03/1999	Harris et al.	 	 	05/17/1995
	AI5	5,985,263	11/16/1999	Lee et al.	 	 	12/19/1997
	AJ5	5,985,265	11/16/1999	Kinstler et al.	 	 	06/20/1997
	AK5	5,990,237	11/23/1999	Bentley et al.	 	 	05/20/1998

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
CMW	AL5	WO 04/060299 A2	07/22/2004	WIPO	 	 	Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CMW	AR	<u>5</u>	Brzozowski, A.M., et al., "Structural origins of the functional divergence of human insulin-like growth factor-I and insulin," <i>Biochemistry</i> 41:9389-9397, American Chemical Society (July 2002)
CMW	AS	<u>5</u>	Bunn, P.A., et al., "Epidermal growth factor receptor expression, signal pathway, and inhibitors in non-small cell lung cancer," <i>Semin Oncol</i> 29:38-44, W.B. Saunders Company (October 2002)
CMW	AT	<u>5</u>	Cabacungan, J.C., et al., "Amine boranes as alternative reducing agents for reductive alkylation of proteins," <i>Anal Biochem</i> 124:272-278, Academic Press, Inc. (1982)
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CMW	AA6	6,042,822	03/28/2000	Gilbert et al.	_____	_____	04/06/1999
	AB6	6,077,939	06/20/2000	Wei et al.	_____	_____	08/04/1997
	AC6	6,132,763	10/17/2000	Fisher	_____	_____	06/02/1995
	AD6	6,340,742 B1	01/22/2002	Burg et al.	_____	_____	06/28/2000
	AE6	6,384,195 B1	05/07/2002	Delgado et al.	_____	_____	01/21/1999
	AF6	6,423,685 B1	07/23/2002	Drummond et al.	_____	_____	03/05/1999
	AG6	6,455,639 B1	09/24/2002	Yasukohchi et al.	_____	_____	03/23/1999
	AH6	6,576,235 B1	06/10/2003	Williams, et al.	_____	_____	08/06/1999
	AI6	2001/0016191 A1	08/23/2001	Osslund	_____	_____	01/03/2001
	AJ6	2002/0127244 A1	09/12/2002	Delgado et al.	_____	_____	03/12/2002
	AK6	2003/0021765 A1	01/30/2003	Pepinsky et al.	_____	_____	04/11/2001

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CMW	AR	<u>6</u>	Carpenter, G., et al., "Epidermal growth factor," J Biol Chem 265:7709-7712, The American Society for Biochemistry and Molecular Biology (1990)
CMW	AS	<u>6</u>	Chander, G., et al., "Treatment of chronic hepatitis C: A systematic review," Hepatology 36:S135-S144, Wiley (November 2002)
CMW	AT	<u>6</u>	Chapman, A.P., "PEGylated antibodies and antibody fragments for improved therapy: A review," Adv Drug Deliv Rev 54:531-545, Elsevier Science B.V. (June 2002)
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U.S. PATENT DOCUMENTS							
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CMW	AA8	2003/01505224 A1	06/05/2003	Roberts et al.			10/09/2001
	AB8	2003/0105224 A1	06/05/2003	Roberts et al.			10/09/2001
	AC8	2004/0062746 A1	04/01/2004	Martinez et al.			09/25/2003
	AD8	2004/0126361 A1	07/01/2004	Saifer et al.			12/23/2003
	AE8	2004/0136952 A1	07/15/2004	Bhaskaran et al.			12/23/2003
	AF8	H001662	07/01/1997	Nishimura et al.			04/05/1990
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FOREIGN PATENT DOCUMENTS							
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CMW	AR	<u>7</u>	Chen, S.A., et al., "Plasma and lymph pharmacokinetics of recombinant human interleukin-2 and polyethylene glycol-modified interleukin-2 in pigs," <i>J Pharmacol Exp Ther</i> 293:248-259, The American Society for Pharmacology and Experimental Therapeutics (2000)
CMW	AS	<u>7</u>	Chen, W.Y., et al., "A human prolactin antagonist, hPRL-G129R, inhibits breast cancer cell proliferation through induction of apoptosis," <i>Clin Cancer Res</i> 5:3583-3593, The American Association for Cancer Research (1999)
CMW	AT	<u>7</u>	Childs, C.E., "The determination of polyethylene glycol in gamma globulin solutions," <i>Microchem J</i> 20:190-192, Academic Press, Inc. (1975)
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CMW	AR	<u>8</u>	Clark, R., et al., "Long-acting growth hormones produced by conjugation with polyethylene glycol," <i>J Biol Chem</i> 271:21969-21977, The American Society for Biochemistry and Molecular Biology (1996)
CMW	AS	<u>8</u>	Crouch, M.F., et al., "Activation of endogenous thrombin receptors causes clustering and sensitization of epidermal growth factor receptors of Swiss 3T3 cells without transactivation," <i>J Cell Biol</i> 152:263-273, Rockefeller University Press (January 2001)
CMW	AT	<u>8</u>	Davis, S., et al., "Alteration of the circulating life and antigenic properties of bovine adenosine deaminase in mice by attachment of polyethylene glycol," <i>Clin Exp Immunol</i> 46:649-652, Blackwell Scientific Publications (1981)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CMW	AR	<u>9</u>	Dixon, H.B.F., et al. "N-Terminal modification of proteins - A review," <i>J Protein Chem</i> 3:99-108, Plenum Publishing Corporation (1984)
CMW	AS	<u>9</u>	Durelli, L., et. al., "Every-other-day interferon beta-1b versus once-weekly interferon beta-1a for multiple sclerosis: results of a 2-year prospective randomised multicentre study (INCOMIN)," <i>The Lancet</i> 359:1453-1460, Lancet Publishing Group (April 2002)
CMW	AT	<u>9</u>	Edsall, J.T., "Dipolar ions and acid-base equilibria," In: <i>Proteins, Amino Acids and Peptides as Ions and Dipolar Ions</i> , Cohn, E.J. et al., eds., Reinhold Publishing Corporation, N.Y., pp. 75-115 (1943)
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CMW	AR	<u>10</u>	Edsall, J.T., "Some relations between acidity and chemical structure," In: <i>Proteins, Amino Acids and Peptides as Ions and Dipolar Ions</i> , Cohn, E.J. et al., eds., Reinhold Publishing Corporation, N.Y., pp. 116-139 (1943)
CMW	AS	<u>10</u>	Fuke, I., et al., "Synthesis of poly(ethylene glycol) derivatives with different branchings and their use for protein modification," <i>J Control Release</i> 30:27-34, Elsevier Science B.V. (1994)
CMW	AT	<u>10</u>	Gaertner, H.F., et al., "Site-specific attachment of functionalized poly(ethylene glycol) to the amino terminus of proteins," <i>Bioconjug Chem</i> 7:38-44, American Chemical Society (1996)
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10/743,295APPLICANT
BHASKARAN et al.FILING DATE
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U.S. PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CMW	AR	<u>11</u>	Geoghegan, K.F., et al., "Site-directed conjugation of nonpeptide groups to peptides and proteins via periodate oxidation of a 2-amino alcohol. Application to modification at N-terminal serine," <i>Bioconjug Chem</i> 3:138-146, American Chemical Society (1992)
CMW	AS	<u>11</u>	Goffin, V., et al., "The prolactin/growth hormone receptor family: Structure/function relationships," <i>J Mammary Gland Biol Neoplasia</i> 2:7-17, Kluwer Academic/Plenum Publishers (1997)
CMW	AT	<u>11</u>	Goodson, R.J., et al., "Site-directed PEGylation of recombinant interleukin-2 at its glycosylation site," <i>Bio/technology</i> 8:343-346, Nature Publishing Co. (1990)

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CMW	AR	<u>12</u>	Grace, M., et al., "Structural and biologic characterization of pegylated recombinant IFN-alpha2b," <i>J Interferon Cytokine Res</i> 21:1103-1115, Mary Ann Liebert, Inc. (December 2001)
CMW	AS	<u>12</u>	Guerra, P.I., et al., "PEGylation prevents the N-terminal degradation of megakaryocyte growth and development factor," <i>Pharm Res</i> 15:1822-1827, Plenum Publishing Corporation (1998)
CMW	AT	<u>12</u>	Hershfield, M.S., et al., "Treatment of adenosine deaminase deficiency with polyethylene glycol-modified adenosine deaminase," <i>N Engl J Med</i> 316:589-596, Massachusetts Medical Society (1987)
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CMW	AR	<u>13</u>	Hinds, K., et al., "Synthesis and characterization of poly(ethylene glycol)-insulin conjugates," <i>Bioconjug Chem</i> 11:195-201, American Chemical Society (2000)
CMW	AS	<u>13</u>	Hjelm Skog, A.-L., et al., "Alteration of interleukin 2 (IL-2) pharmacokinetics and function by IL-2 antibodies induced after treatment of colorectal carcinoma patients with a combination of monoclonal antibody 17-1A, granulocyte macrophage colony-stimulating factor, and IL-2," <i>Clin Cancer Res</i> 7:1163-1170, The American Association for Cancer Research (May 2001)
CMW	AT	<u>13</u>	The IFNB Multiple Sclerosis Study Group. "Neutralizing antibodies during treatment of multiple sclerosis with interferon beta-1b: Experience during the first three years," <i>Neurology</i> 47:889-894, The American Academy of Neurology (1996)
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CMW	AR	<u>14</u>	Hymowitz, S.G., et al., "A unique zinc-binding site revealed by a high-resolution X-ray structure of homotrimeric Apo2L/TRAIL," <i>Biochemistry</i> 39:633-640, American Chemical Society (2000)
CMW	AS	<u>14</u>	Josephson, K., et al., "Design and analysis of an engineered human interleukin-10 monomer," <i>J Biol Chem</i> 275:13552-13557, The American Society for Biochemistry and Molecular Biology (2000)
CMW	AT	<u>14</u>	Karpusas, M., et al., "The crystal structure of human interferon beta at 2.2-Å resolution," <i>Proc Natl Acad Sci U S A</i> 94:11813-11818, National Academy of Sciences (1997)
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CMW	AR	<u>15</u>	Karpusas, M., et al., "The structure of human interferon-beta: Implications for activity," <i>Cell Mol Life Sci</i> 54:1203-1216, Birkhäuser Verlag, Basel (1998)
CMW	AS	<u>15</u>	Katre, N.V., "Immunogenicity of recombinant IL-2 modified by covalent attachment of polyethylene glycol," <i>J Immunol</i> 144:209-213, American Association of Immunologists (1990)
CMW	AT	<u>15</u>	Kelly, S.J., et al., "Diabetes insipidus in uricase-deficient mice: A model for evaluating therapy with poly(ethylene glycol)-modified uricase," <i>J Am Soc Nephrol</i> 12:1001-1009, Lippincott Williams & Wilkins (May 2001)
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CMW	AR	<u>16</u>	Kinstler, O.B., et al., "Characterization and stability of N-terminally PEGylated rhG-CSF," <i>Pharm Res</i> , 13:996-1002, Plenum Publishing Corporation (1996)
CMW	AS	<u>16</u>	Kinstler, O., et al. "Mono-N-terminal poly(ethylene glycol)-protein conjugates," <i>Adv Drug Deliv Rev</i> 54:477-485, Elsevier Science B.V. (June 2002)
CMW	AT	<u>16</u>	Kita, Y., et al., "Characterization of a polyethylene glycol conjugate of recombinant human interferon-gamma," <i>Drug Des Deliv</i> 6:157-167, Harwood Academic (1990)
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CMW	AR	<u>17</u>	Knauf, M.J., et al., "Relationship of effective molecular size to systemic clearance in rats of recombinant interleukin-2 chemically modified with water-soluble polymers," <i>J Biol Chem</i> 263:15064-15070, American Society for Biochemistry and Molecular Biology (1988)
CMW	AS	<u>17</u>	Kochendoerfer, G.G., et. al., "Design and Chemical Synthesis of a Homogeneous Polymer-Modified Erythropoiesis Protein," <i>Science</i> 299:884-887, American Association for the Advancement of Science (February 2003)
CMW	AT	<u>17</u>	Kossiakoff, A.A., et al., "Structural basis for cytokine hormone-receptor recognition and receptor activation," <i>Adv Protein Chem</i> 52:67-108, Academic Press, Inc. (1999)

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CMW	AR	<u>18</u>	Kuwabara, T., et al., "Renal clearance of a recombinant granulocyte colony-stimulating factor, nartograstim, in rats," <i>Pharm Res</i> 12:1466-1469, Plenum Publishing Corporation (1995)
CMW	AS	<u>18</u>	Larson, R.S., et al., "Physicochemical characterization of poly(ethylene glycol)-modified anti-GAD antibodies," <i>Bioconj Chem</i> 12:861-869, American Chemical Society (November-December 2001)
CMW	AT	<u>18</u>	Laskowski, R.A., "PDBsum: Summaries and analyses of PDB structures," <i>Nucleic Acids Res</i> 29:221-222, Oxford University Press (January 2001)

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CMW	AR	19	Lee, L.S., et al., "Prolonged circulating lives of single-chain Fv proteins conjugated with polyethylene glycol: A comparison of conjugation chemistries and compounds," Bioconj Chem 10:973-981, American Chemical Society (1999)
CMW	AS	19	Leong, S.R., et al., "Adapting pharmacokinetic properties of a humanized anti-interleukin-8 antibody for therapeutic applications using site-specific PEGylation," Cytokine 16:106-119, Academic Press, Inc. (November 2001)
CMW	AT	19	Li, J., et al., "Thrombocytopenia caused by the development of antibodies to thrombopoietin," Blood 98:3241-3248, American Society of Hematology (December 2001)

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CMW	AR	<u>20</u>	Lin, L., "Betaseron," Dev Biol Stand 96:97-104, Karger (1998)
CMW	AS	<u>20</u>	Lin, L.S., et al., "Interferon-beta-1b (Betaseron®): A model for hydrophobic therapeutic proteins," Pharm Biotechnol 9:275-301, Plenum Press (1996)
CMW	AT	<u>20</u>	Lu, H.-S., et al., "Crystal structure of human epidermal growth factor and its dimerization," J Biol Chem 276:34913-34917, American Society for Biochemistry and Molecular Biology (September 2001)

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CMW	AR	<u>21</u>	Manns, M.P., et al., "Peginterferon alfa-2b plus ribavirin compared with interferon alfa-2b plus ribavirin for initial treatment of chronic hepatitis C: A randomised trial," <i>Lancet</i> 358:958-965, Lancet Publishing Group (September 2001)
CMW	AS	<u>21</u>	McNiece, I.K., et al., "Stem cell factor," <i>J Leukoc Biol</i> 58:14-22, Wiley-Liss, Inc. (1995)
CMW	AT	<u>21</u>	Merrill, E.W., "Poly(ethylene oxide) star molecules: Synthesis, characterization, and applications in medicine and biology," <i>J Biomater Sci Polymer Edn</i> 5:1-11, VSP, The Netherlands (1993)

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CMW	AR	22	Monkarsh, S.P., et al., "Positional isomers of monopegylated interferon alpha-2a: Isolation, characterization, and biological activity," <i>Anal Biochem</i> 247:434-440, Academic Press, Inc. (1997)
CMW	AS	22	Monkarsh, S.P., et al., "Isolation of positional isomers of mono-poly(ethylene glycol)ylate interferon/alpha-2a and the determination of their biochemical and biological characteristics," in Harris, J.M., et al., eds., <i>Poly(ethylene glycol): Chemistry and Biological Applications</i> , American Chemical Society, Washington, D.C., pp. 207-216 (1997)
CMW	AT	22	Mordenti, J., et al., "Interspecies scaling of clearance and volume of distribution data for five therapeutic proteins," <i>Pharm Res</i> 8:1351-1359, Plenum Publishing Corporation (1991)

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CMW	AR	<u>23</u>	Morris, A.E., et al., "Effects of insulin and LongR (3) on serum-free Chinese hamster ovary cell cultures expressing two recombinant proteins," <i>Biotechnol Prog</i> 16:693-697, American Institute of Chemical Engineers (2000)
CMW	AS	<u>23</u>	Morris, J.C., et al., "Advances in interleukin 2 receptor targeted treatment," <i>Ann Rheum Dis</i> 59 (Suppl 1):i109-i114, BMJ Publishing Group Ltd. (2000)
CMW	AT	<u>23</u>	Morrissey, P.J., et al., "Steel factor (c-kit ligand) stimulates the in vitro growth of immature CD3-/CD4-/CD8- thymocytes: Synergy with IL-7," <i>Cell Immunol</i> 157:118-131, Academic Press, Inc. (1994)

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CMW	AR	<u>24</u>	Nicola, N.A., "An introduction to the cytokines," in: <i>Guidebook to Cytokines and Their Receptors</i> , Nicola, N.A., ed., pp. 1-7, Oxford University Press, N.Y. (1994)
CMW	AS	<u>24</u>	Onuffer, J.J., et al., "Chemokines, chemokine receptors and small-molecule antagonists: Recent developments," <i>Trends Pharmacol Sci</i> 23:459-467, Elsevier Science Ltd. (October 2002)
CMW	AT	<u>24</u>	Oppenheim, J.J., et al., "Prospects for cytokine and chemokine biotherapy," <i>Clin Cancer Res</i> 3:2682-2686, The American Association for Cancer Research (1997)

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CMW	AR	<u>25</u>	Peitsch, M.C., "About the use of protein models," <i>Bioinformatics</i> 18:934-938, Oxford University Press (July 2002)
CMW	AS	<u>25</u>	Pepinsky, R.B., et al., "Improved pharmacokinetic properties of a polyethylene glycol-modified form of interferon-beta-1a with preserved in vitro bioactivity," <i>J Pharmacol Exp Ther</i> 297:1059-1066, American Society for Pharmacology and Experimental Therapeutics (June 2001)
CMW	AT	<u>25</u>	Peterson, F.C., "Identification of motifs associated with the lactogenic and somatotrophic actions of human growth hormone," <i>Ph.D. Dissertation, Ohio State University, UMI # 9822357, UMI, Ann Arbor, MI</i> (1998)

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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 2057.0060002/JAG/BJD	APPLICATION NO. 10/743,295
	APPLICANT BHASKARAN et al.	
	FILING DATE December 23, 2003	GROUP 1641

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CMW	AR	<u>26</u>	Pettit, D.K., et al., "Structure-function studies of interleukin 15 using site-specific mutagenesis, polyethylene glycol conjugation, and homology modeling," <i>J Biol Chem</i> 272:2312-2318, American Society for Biochemistry and Molecular Biology (1997)
CMW	AS	<u>26</u>	Pungor, E., et al., "A novel bioassay for the determination of neutralizing antibodies to IFN-beta 1b." <i>J Interferon Cytokine Res</i> 18:1025-1030, Mary Ann Liebert, Inc. (1998)
CMW	AT	<u>26</u>	Ragnhammar, P., et al., "Induction of anti-recombinant human granulocyte-macrophage colony-stimulating factor (<i>Escherichia coli</i> -derived) antibodies and clinical effects in nonimmunocompromised patients," <i>Blood</i> 84:4078-4087 American Society of Hematology (1994)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CMW	AR	<u>27</u>	Roberts, M.J., et al., "Chemistry for peptide and protein PEGylation," <i>Adv Drug Deliv Rev</i> 54:459-476, Elsevier Science B.V. (June 2002)
CMW	AS	<u>27</u>	Ross, R.J.M., et al., "Binding and functional studies with the growth hormone receptor antagonist, B2036-PEG (pegvisomant), reveal effects of pegylation and evidence that it binds to a receptor dimer," <i>J Clin Endocrinol Metab</i> 86:1716-1723, The Endocrine Society (April 2001)
CMW	AT	<u>27</u>	Rostaing, L., et al., "Pharmacokinetics of alphaIFN-2b in chronic hepatitis C virus patients undergoing chronic hemodialysis or with normal renal function: Clinical implications," <i>J Am Soc Nephrol</i> 9:2344-2348, Lippincott Williams & Wilkins (1998)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CMW	AR	<u>28</u>	Rozwarski, D.A., et al., "Refined crystal structure and mutagenesis of human granulocyte-macrophage colony-stimulating factor," <i>Proteins</i> 26:304-313, Wiley-Liss Inc. (1996)
CMW	AS	<u>28</u>	Runkel, L., et al., "Systematic mutational mapping of sites on human interferon-beta-1a that are important for receptor binding and functional activity," <i>Biochemistry</i> 39:2538-2551, American Chemical Society (2000)
CMW	AT	<u>28</u>	Rusconi, F., et al. "Quantification of sodium dodecyl sulfate in microliter-volume biochemical samples by visible light spectroscopy," <i>Anal Biochem</i> 295:31-37, Academic Press, Inc. (August 2001)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CMW	AR	<u>29</u>	Sato, H., et al., "Transglutaminase-mediated dual and site-specific incorporation of poly(ethylene glycol) derivatives into a chimeric interleukin-2," <i>Bioconjug Chem</i> 11:502-509, American Chemical Society (2000)
CMW	AS	<u>29</u>	Sato, H., "Enzymatic procedure for site-specific pegylation of proteins," <i>Adv Drug Deliv Rev</i> 54:487-504, Elsevier Science B.V. (June 2002)
CMW	AT	<u>29</u>	Sayle, R.A., et al., "RASMOL: Biomolecular graphics for all," <i>Trends Biochem Sci</i> 20:374-376, Elsevier Trends Journals (1995)

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CMW	AR	<u>30</u>	Schein, C.H., "The shape of the messenger: Using protein structure information to design novel cytokine-based therapeutics," <i>Curr Pharm Des</i> 8:2113-2129, Bentham Science Publishers Ltd. (2002)
CMW	AS	<u>30</u>	Schellekens, H., "Immunogenicity of therapeutic proteins: Clinical implications and future prospects," <i>Clin Ther</i> 24:1720-1740, Excerpta Medica (November 2002)
CMW	AT	<u>30</u>	Schlessinger, J., et al., "Crystal structure of a ternary FGF-FGFR-heparin complex reveals a dual role for heparin in FGFR binding and dimerization," <i>Mol Cell</i> 6:743-750, Cell Press (2000)

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CMW	AR	<u>31</u>	Sherman, M.R., et al., "Conjugation of high molecular weight poly(ethylene glycol) to cytokines: Granulocyte-macrophage colony-stimulating factors as model substrates," in: <i>Poly(ethylene glycol): Chemistry and Biological Applications</i> , Harris, J.M., et al., eds., pp. 155-169, American Chemical Society, Washington, D.C. (1997)
CMW	AS	<u>31</u>	Skoog, B., "Determination of polyethylene glycols 4000 and 6000 in plasma protein preparations," <i>Vox Sang</i> 37:345-349, Blackwell Science (1979)
CMW	AT	<u>31</u>	Sundström, M., et al., "Crystal structure of an antagonist mutant of human growth hormone, G120R, in complex with its receptor at 2.9 Å resolution," <i>J Biol Chem</i> 271:32197-32203, American Society for Biochemistry and Molecular Biology (1996)

EXAMINER /Cherie Woodward/	DATE CONSIDERED 04/21/2006
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CMW	AR	<u>32</u>	Tchelet, A., et al., "Selective modification at the N-terminal region of human growth hormone that shows antagonistic activity," <i>Mol Cell Endocrinol</i> 130:141-152, North Holland Publishing (1997)
CMW	AS	<u>32</u>	Thiel, D.J., et al., "Observation of an unexpected third receptor molecule in the crystal structure of human interferon-gamma receptor complex," <i>Structure</i> 8:927-936, Elsevier Science Ltd. (2000)
CMW	AT	<u>32</u>	Utsumi, T., et al., "The role of amino functions in recombinant human tumor necrosis factor in expression of biological activity," <i>Mol Immunol</i> 29:77-81, Pergamon Press, (1992)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CMW	AR	<u>33</u>	Venkatachalam, M.A., et al., "The structural and molecular basis of glomerular filtration," <i>Circ Res</i> 43:337-347, Grune & Stratton (1978)
CMW	AS	<u>33</u>	Wadhwa, M., et al., "Immunogenicity of granulocyte-macrophage colony-stimulating factor (GM-CSF) products in patients undergoing combination therapy with GM-CSF," <i>Clin Cancer Res</i> 5:1353-1361, The American Association for Cancer Research (1999)
CMW	AT	<u>33</u>	Walter, M.R., et al., "Crystal structure of a complex between interferon-gamma and its soluble high-affinity receptor," <i>Nature</i> 376:230-235, Macmillan Magazines Ltd. (1995)

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CMW	AR	<u>34</u>	Wang, Y.-S., et al., "Structural and biological characterization of pegylated recombinant interferon alpha-2b and its therapeutic implications," <i>Adv Drug Deliv Rev</i> 54:547-570, Elsevier Science B.V. (June 2002)
CMW	AS	<u>34</u>	Weinreich, D.M., et al., "Response rates of patients with metastatic melanoma to high-dose intravenous interleukin-2 after prior exposure to alpha-interferon or low-dose interleukin-2," <i>J Immunother</i> 25:185-187, Lippincott Williams & Wilkins (March-April 2002)
CMW	AT	<u>34</u>	Wilson, G., "Selective hepatic uptake of synthetic glycoproteins. Mannosaminated ribonuclease A dimer and serum albumin," <i>J Gen Physiol</i> 74:495-509, Rockefeller University Press (1979)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CMW	AR	35	Wyllie, D.C., et al., "Carboxyalkylated histidine is a pH-dependent product of pegylation with SC-PEG," <i>Pharm Res</i> 18:1354-1360, Plenum Publishing Corporation (September 2001)
CMW	AS	35	Youngster, S., et al., "Structure, biology, and therapeutic implications of pegylated interferon alpha-2b," <i>Curr Pharm Des</i> 8:2139-2157, Bentham Science Publishers Ltd. (2002)
CMW	AT	35	Zalipsky, S., et al., "Hydrazide derivatives of poly(ethylene glycol) and their bioconjugates," In: <i>Chemistry and Biological Applications of Poly(ethylene glycol)</i> , J.M. Harris, & S. Zalipsky, eds., pp. 318-341, American Chemical Society, Washington, D.C. (1997)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CMW	AR	<u>36</u>	Zhang, R-E., et al., "Synthesis and application of Fmoc-hydrazine for the quantitative determination of saccharides by reversed-phase high-performance liquid chromatography in the low and subpicomole range," <i>Anal Biochem</i> 195:160-167, Academic Press, Inc. (1991)
	AS	<u>36</u>	
	AT	<u>36</u>	

EXAMINER	/Cherie Woodward/	DATE CONSIDERED	09/11/2006
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FORM PTO-1449

**FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.
2057.0060002/JAG/BJD

APPLICATION NO.
10/743,295

APPLICANT
BHASKARAN et al.

FILING DATE
December 23, 2003

GROUP
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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CMW	AG8	4,766,106	08/23/1988	Katre et al.			01/25/1988
	AH8	4,847,325	07/11/1989	Shadle et al.			01/20/1988
	AI8	4,917,888	04/17/1990	Katre et al.			12/11/1987
	AJ8	6,638,500 B1	10/28/2003	El-Tayar et al.			10/30/2000
	AK8	2004/0043002 A1	03/04/2004	El-Tayar et al.			08/28/2003

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
CMW	AM5	EP 0 229 108 B1	06/06/1986	Europe			Yes No
CMW	AN5	WO 87/00056	06/06/1986	WIPO			Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
CMW	AS	36	Acharya, A.S., et. al., "Selectivity in the Modification of the α -Amino Groups of Hemoglobin on Reductive Alkylation with Aliphatic Carbonyl Compounds," J. Biol. Chem. 260:6039-6046, The American Society of Biological Chemists, Inc. (1985)
CMW	AT	36	Bayer, E., et. al., "Functionalization of Soluble Polymers: 4. Synthesis of Dichloro- and Di(4-Formylphenoxyethyl) Poly(Oxyethylene)," Polymer Bulletin 8:585-592, Springer-Verlag (1982)

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CMW	AR	37	Bayer, E., et. al., "Functionalization of Soluble Polymers: 6. Preparation and Kinetic Aspects of Linear, Hydrophilic Aldehydes Based on Poly(Oxyethylene)," <i>Polymer Bulletin</i> 13:431-434, Springer-Verlag (1985)
CMW	AS	37	Chamow, S.M., et. al., "Modification of CD4 Immunoaderisin with Monoethoxypoly(ethylene glycol) Aldehyde via Reductive Alkylation," <i>Bioconjugate Chem.</i> 5:133-140, American Chemical Society (1994)
CMW	AT	37	Friedman, M., et. al., "Reductive Alkylation of Proteins with Aromatic Aldehydes and Sodium Cyanoborohydride," <i>Int. J. Peptide Protein Res.</i> 6:183-185, Munksgaard International Publishers (1974)

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CMW	AR	<u>38</u>	Harris, J.M., et. al., "New Polyethylene Glycols for Biomedical Applications," in <i>Water-Soluble Polymers: Synthesis, Solution Properties, and Applications</i> , Shalaby, S.W., et al., eds., 198 th National Meeting of the American Chemical Society, Miami, Florida, pp. 418-429 (1989)
CMW	AS	<u>38</u>	Harris, J.M., et. al., "Synthesis and Characterization of Poly(ethylene Glycol) Derivatives," <i>Journal of Polymer Science</i> 22:341-352, Polymer Chemistry Edition (1984)
CMW	AT	<u>38</u>	Means, G.E., and Feeney, R.E., "Review: Reductive Alkylation of Proteins," <i>Anal. Biochem.</i> 224:1-16, Academic Press, Inc. (1995)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CMW	AR	<u>39</u>	Means, G.E., and Feeney, R.E., "Alkylating and similar reagents," in <i>Chemical Modification of Proteins</i> , Holden-Day, Inc., San Francisco, CA, pp. 105-138 (1971)
CMW	AS	<u>39</u>	Royer, G.P., "Immobilization of Enzymes on Aldehydic Matrices by Reductive Alkylation," <i>Biochemical and Biophysical Research Communications</i> 64:478-484, Academic Press, Inc. (1975)
CMW	AT	<u>39</u>	Zalipsky, S., "Functionalized Polymers and Their Biologically-Relevant Conjugates," in <i>Biomedical Functions and Biotechnology of Natural and Artificial Polymers</i> , Yalpani, M., ed., ATL Press, Shrewsbury, MA, pp.63-76 (1996)
EXAMINER			DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.			

FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 2057.0060002/JAG/BJD	APPLICATION NO. 10/743,295
	APPLICANT BHASKARAN et al.	
	FILING DATE December 23, 2003	GROUP 1641

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

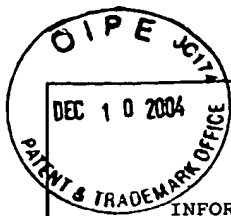
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	40	Copy of co-pending Taiwanese Application No. 82116592, inventors Bhaskaran, S S et al., filed December 23, 1992 (NOT PUBLISHED)
	AS		
	AT		

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 2057.0060002/JAG/BJD	APPLICATION NO. 10/743,295
	APPLICANT BHASKARAN et al.	
	FILING DATE December 23, 2003	GROUP 1641

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CMW	AA9	4,588,585	05/13/1986	Mark et al.	424	85	09/28/1984
CMW	AB9	5,460,811	10/24/1995	Goeddel et al.	424	85.6	06/12/1989
CMW	AC9	6,482,613 B1	11/19/2002	Goeddel et al.	435	69.51	01/19/1988
CMW	AD9	2002/0172661 A1	11/21/2002	Shirley et al.	424	85.6	10/25/2001
CMW	AE9	2004/0181035 A1	09/16/2004	Kinstler et al.	530	350	03/26/2001
CMW	AF9	2004/0191219 A1	09/30/2004	Shirley et al.	424	85.6	04/09/2004
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM5						Yes No
	AN5						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR			
AS	40	Unverified partial translation of Doc. No. AP4 (WO 04/046222 A1), pages 18-19 (Tables 1 and 2); and 79-92 (Example 35, and claims 1-29).	
AT	40		
EXAMINER /Cherie Woodward/			DATE CONSIDERED 09/11/2006

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FORM PTO-1449

THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
2057.0060002/JAG/BJD

APPLICATION NO.
10/743,295

APPLICANT
BHASKARAN et al.

FILING DATE
December 23, 2003

GROUP
1641

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA9						
	AB9						
	AC9						
	AD9						
	AE9						
	AF9						
CMW	AG9	US 2003/0219404 A1	11/27/2003	Yamasaki et al.	424	85.4	12/22/2000
CMW	AH9	US 2004/0249576 A1	12/09/2004	Desjarlais et al.	702	19	03/31/2004
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM5						Yes No
	AN5						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
	AS		
	AT		

EXAMINER /Cherie Woodward/

DATE CONSIDERED
09/11/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

MAR 23 2005

FOURTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
2057.0060002/JAG/BJDAPPLICATION NO.
10/743,295APPLICANT
BHASKARAN *et al.*FILING DATE
December 23, 2003GROUP
1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
CMW	AI9	5,166,322	11/24/1992	Shaw <i>et al.</i>	_____		04/21/1989
CMW	AJ9	6,770,746 B2	08/03/2004	Gregg <i>et al.</i>	_____		05/06/2002
CMW	AK9	2003/0096400 A1	05/22/2003	Kinstler	_____		10/04/2002

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
CMW	AO5	WO 93/00109	01/07/1993	WIPO	_____		Yes No
CMW	AP5	WO 95/32003	11/30/1995	WIPO	_____		Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
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EXAMINER /Cherie Woodward/

DATE CONSIDERED 09/11/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

MAR 23 2005

ATTY. DOCKET NO.
2057.0060002/JAG/BJDAPPLICATION NO.
10/743,295FOURTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTAPPLICANT
BHASKARAN *et al.*FILING DATE
December 23, 2003GROUP
1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CMW	AA10	2003/0053982 A1	03/20/2003	Kinstler			04/25/2002
CMW	AB10	2004/0127417 A1	07/01/2004	Finn			11/20/2003
CMW	AC10	2004/0142870 A1	07/22/2004	Finn			02/04/2004
CMW	AD10	2004/0230040 A1	11/18/2004	Cox, III			06/10/2004
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
CMW	AL6	EP 0 458 064 B1	02/25/1998	Europe			Yes No
CMW	AM6	WO 2004/009774 A2	01/29/2004	WIPO			Yes No
CMW	AN6	EP 0 822 199 B1	09/22/2004	Europe			Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
	AS		
	AT		

EXAMINER /Cherie Woodward/

DATE CONSIDERED 09/11/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

FIFTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

2057.0060002/JAG/BJD

APPLICATION NO.

10/743,295

FIRST NAMED INVENTOR

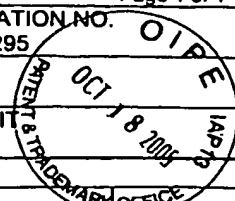
BHASKARAN *et al.*

FILING DATE

December 23, 2003

ART UNIT

1646



U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	OFFICE FILING DATE
	AA						
	AB						
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	AD						
	AE						
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	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL6						Yes
							No
	AM6						Yes
							No
	AN6						Yes
							No
CMW	AO6	WO 2005/084303 A2	09/15/2005	WIPO			Yes
							No
	AP						Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
	AS		
	AT		

EXAMINER

/Cherie Woodward/

DATE CONSIDERED 09/11/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.